

## Product datasheet for **RG228103**

### MOSMO (NM\_001164579) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MOSMO (NM\_001164579) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MOSMO  
**Synonyms:** ATTHOG; BC030336; C16orf52  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228103 representing NM\_001164579  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGC

ATGGATAAACTGACCATCATCTCAGGATGTCTCTTTCTGGCCGCCGATATCTTCGCCATCGCCAGCATCG  
 CCAACCCGGACTGGATCAACACCGGGGAGTCTGCGGGAGCACTACTGTGGCCTCGTGACAGTGTCA  
 AACATCCATGGACGAGACCGGACGTGCATCCCTCCCGGCTTCCCCGGAGTGGGTACCACACTGTTT  
 TTTATCATCATGGAATCATTTTATTGACTGTCACATGTGGTTTGCTGGTGGCTTCCCACTGGCGAAGAG  
 AAGCTACAAAATATGCTCGATGGATAGCATTCACTGGAATGATCCTTTTCTGTATGGCTGCCCTAATATT  
 TCCAATAGGATTTTACATCAATGAAGTCGAGGTCAACCTTATAAATTACCAACAACACAGTAGTTGGG  
 TCATCATATGTACTTTTTGTCTTATCAATTTTCTTACAATAGTAGGACTTCTATTTGCTGGCAAAGTTT  
 GTTACCAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228103 representing NM\_001164579  
Red=Cloning site Green=Tags(s)

MDKLTIIISGCLFLAADIFAIAIANPDWINTGESAGALTVGLVRQCQTIHGRDRTCIIPRLPPEWVTTLF  
 FIIMGIISLTVTCGLLVASHWRREATKYARWIAFTGMILFCMAALIFPIGFYINEVGGQPYKLPNNTVVG  
 SSVYLVLSIFFTIVGLLFAGKVCLPG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001164579

**ORF Size:** 501 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001164579.2](#)

**RefSeq Size:** 4445 bp

**RefSeq ORF:** 504 bp

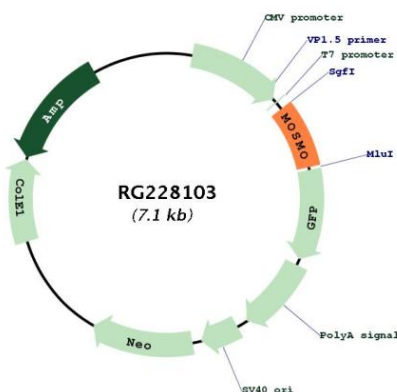
**Locus ID:** 730094

**UniProt ID:** [Q8NHV5](#)

**Cytogenetics:** 16p12.2

**Gene Summary:** Acts as a negative regulator of hedgehog signaling probably by promoting internalization and subsequent degradation of smoothened protein (SMO) present in the ciliary membrane. Plays a role in sonic hedgehog (SHH)-induced spinal neural progenitor cells differentiation.  
[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG228103